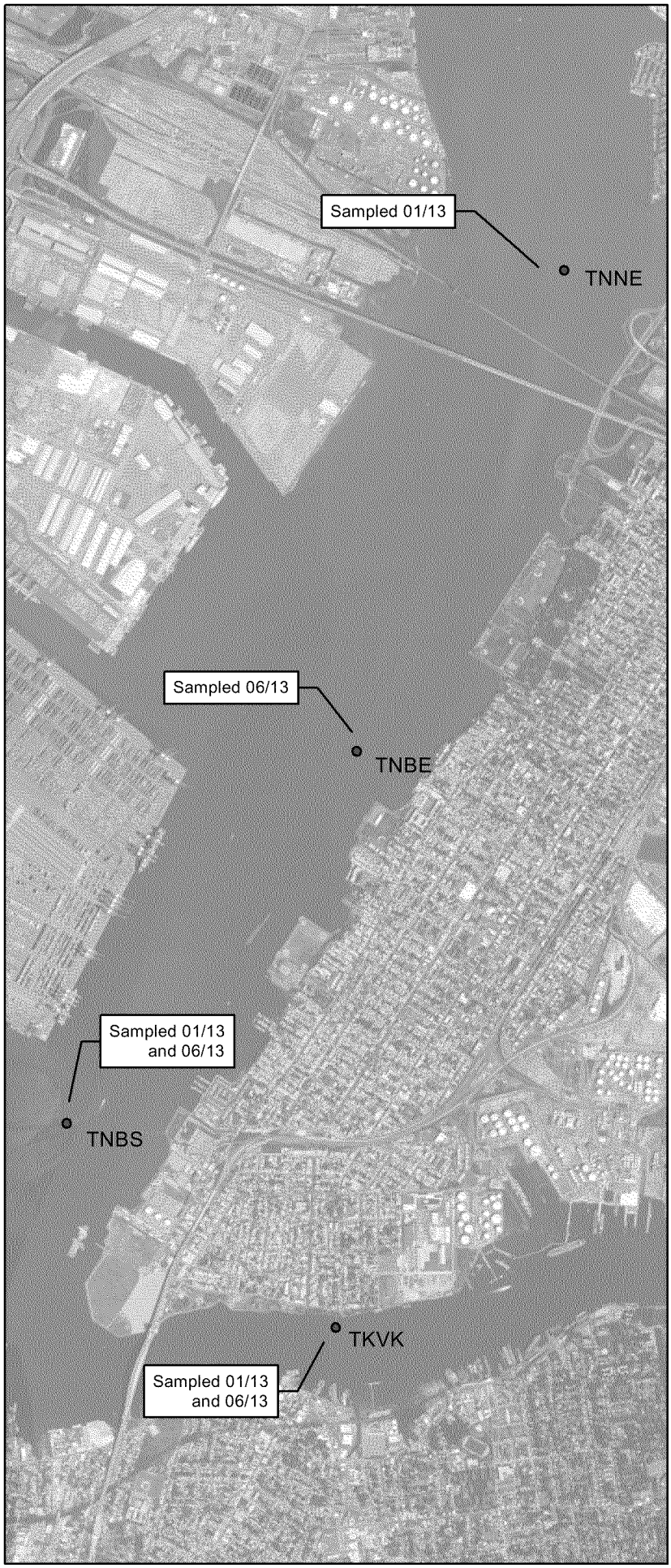
Nonconformance Report
Lower Passaic River Restoration Project
Remedial Investigation
Chemical Water Column Monitoring
Project No: 60144462 - NBSA

Nonconformance Number: NC-130624-1
Document (plan or SOP title and date): Quality Assurance Project Plan. Lower Passaic River Restoration Project. RI Water Column Monitoring/High Volume Chemical Data Collection. Revision 2. December 2012.
Activity: Collecting high volume (HV) water samples.
Nonconformance: The QAPP states Newark Bay Northeast (TNNE) will be sampled using high volume techniques to provide data from a station in Newark Bay on the lower range of salinity. TNNE is also noted in Worksheet #18 as being a shallow mudflat location. The OSI captain was given instruction from the OSI project manager to sample at "NBNE". The captain misunderstood the location and set anchor at Newark Bay East (TNBE). EPA oversight were not present, but were at Newark Bay south location at the time. The error in location was not noted by AECOM at the time of sampling and HV samples were collected at TNBE but mistakenly labeled and thought to be TNNE. The locations sampled in the Newark Bay Study Area during High Volume #1 and High Volume #2 are noted in the attached figure. This error in location was noted on June 24, 2013 when the sampling team set up on station for the second HV sampling program.
Date of Nonconformance: 01/08/2013
Ramifications/Corrective Action: The purpose of HV sampling at TNNE is to provide data from a shallow station with low salinity. This station is in contrast to Newark Bay South (TNBS) which is deep and has the highest overall salinity of the stations sampled in Newark Bay for small volume CWCM. A review of salinity and depth data from the deep samples collected during the SV CWCM program at TNBE and TNNE reveal similar depths and salinity. The average depth of deep samples collected from TNBE was 5.4 feet with an average salinity of 19.7 ppth. At TNNE, depth of deep samples averaged 3.2 ft with an average salinity of 19 ppth. This is in contrast to TNBS where the depth of deep samples averaged 49 ft and the salinity averaged 23.4 ppth. TNBE was not the target location from the QAPP but the data generated during the first HV event should satisfy the data quality objectives of providing data from a shallow less saline location in Newark Bay to contrast with the deeper, more saline data from TNBS. Both the TNNE and TNBE data can be used provide data to support an evaluation of lower salinities and potential effect on developing site-specific partition coefficients. The sample and station IDs will be updated on all records for the sample. Revised lab reports and data validation reports with the correct sample IDs will be issued. Log books and all hard copy field data will be corrected by hand. The CWCM Task Manager has discussed this nonconformance with both the AECOM boat team leaders and OSI. In the future, AECOM boat team leaders will confirm the location with the OSI captain and the CWCM Task Manager verbally prior to getting underway. The location code (e.g., TNNE) will be a universal code and codes such as "NBNE" will not be used. The location coordinates will be confirmed once on station. Any questions or concerns will be directed to the CWCM Task Manager for resolution.

Submitted by: Ryan McCarthy	**Date:** June 24, 2013
Project QA Manager Review: Debra L. Simmons Debra L. Simmons	**Date:** June 26, 2013
Task Manager Review:	**Date:** June 26, 2013
Other Approval:	**Date:**



N

0 0.25 0.5 1 Miles

Figure 1-1

Chemical Water Column
Newark Bay High Volume
Monitoring Locations

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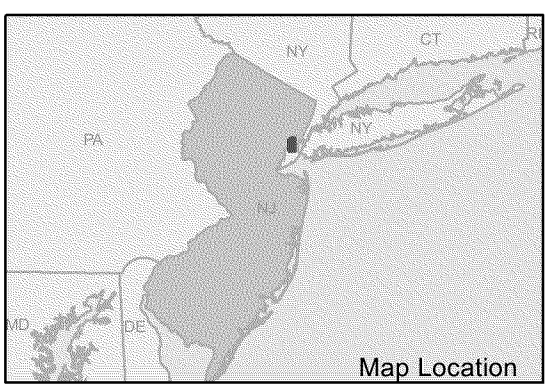
Prepared at Request of Counsel.



July, 2013

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